STIC Search Report
EIC 2100

USPTO

|	
TO: Nadia Khoshnoodi **Location: RND 2B65** **Art Unit : 2133** **Wednesday, May 25, 2005** **Case Serial Number: 09/728292**	**From: David Holloway** **Location: EIC 2100** **RND 4B19** **Phone: 2-3528** **david.holloway@uspto.gov**

Search Notes

Dear Examiner Khoshnoodi,

Attached please find your search results for above-referenced case.
Please contact me if you have any questions or would like a re-focused search.

David

sira
Search and Information
Resources Administration
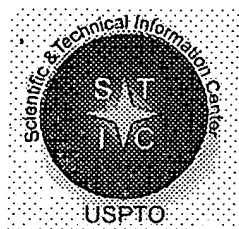
STIC EIC 2100 154364
Search Request Form

Today's Date: 5-25-2005

What date would you like to use to limit the search?
Priority Date: 5/25/2000   Other:

Name Nadia Khoshnoodi

AU 2133   **Examiner #** 80432

Room # 2B65   **Phone** 2-3825

Serial # 09/728,292

Format for Search Results (Circle One):
(PAPER)   DISK   EMAIL

Where have you searched so far?
(USP)   DWPI (EPO) (JPO) ACM   IBM TDB
IEEE INSPEC SPI   Other _____

Is this a "Fast & Focused" Search Request? (Circle One) (YES)   NO
A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at http://ptoweb/patents/stic/stic-tc2100.htm.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

Bar coding method:
modulating a base image, the base image being a handwritten signature.
→ where "modulating" is vectorizing the hand written signature

also when modulating the base image, doing so with a graphical encoding of the signed message

(Basically something like a handwritten signature embedded in a bar code
→ although it's geared towards bar codes, something like water-marking may also work.
→ claim 7   5,490,217

STIC Searcher David Holloway   **Phone** 2-3528

Date picked up 5-25-05   **Date Completed** 5-25-05

```
Set       Items     Description
S1        18548     BARCOD? OR (PRODUCT? OR BAR).()(CODING OR CODE?) OR ISBN OR
                    UPC OR UNIVERSAL()PRODUCT()CODE? OR EAN OR POSTNET OR CODABAR
                    OR CODE128 OR CODE()128
S2        31538     HANDWRIT? OR HAND()(WRITTEN OR WRITING) OR AUTOGRAPH? OR C-
                    URSIV? OR LONGHAND?
S3          311     S2(2N)(VECTOR? OR MODULAT? OR ENCRYPT? OR ENCIPHER? OR ENC-
                    YPHER? OR STEGANOGRAPH? OR WATERMARK?)
S4            0     S1 AND S3
S5           74     S1 AND S2
S6           12     S5 AND (VECTOR? OR MODULAT? OR ENCRYPT? OR ENCOD? OR ENCYP-
                    HER? OR ENCIPHER? OR STEGANOGRAPH? OR WATERMARK?)
S7           10     S1(2N)S2
S8           19     S6 OR S7
S9           23     S5 AND (COMBIN? OR MERG? OR EMBED? OR INTEGRAT? OR INCORPO-
                    RAT? OR WATERMARK? OR STEGANOGRAPH?)
S10          33     S8 OR S9
S11          21     RD (unique items)
S12          13     S11 NOT PY>2000
File     8:Ei Compendex(R) 1970-2005/May W3
           (c) 2005 Elsevier Eng.  Info. Inc.
File    35:Dissertation Abs Online 1861-2005/May
           (c) 2005 ProQuest Info&Learning
File    65:Inside Conferences 1993-2005/May W4
           (c) 2005 BLDSC all rts. reserv.
File     2:INSPEC 1969-2005/May W3
           (c) 2005 Institution of Electrical Engineers
File    94:JICST-EPlus 1985-2005/Apr W1
           (c)2005 Japan Science and Tech Corp(JST)
File   111:TGG Natl.Newspaper Index(SM) 1979-2005/May 23
           (c) 2005 The Gale Group
File     6:NTIS 1964-2005/May W3
           (c) 2005 NTIS, Intl Cpyrght All Rights Res
File   144:Pascal 1973-2005/May W3
           (c) 2005 INIST/CNRS
File    34:SciSearch(R) Cited Ref Sci 1990-2005/May W4
           (c) 2005 Inst for Sci Info
File    99:Wilson Appl. Sci & Tech Abs 1983-2005/Apr
           (c) 2005 The HW Wilson Co.
File    95:TEME-Technology & Management 1989-2005/Apr W3
           (c) 2005 FIZ TECHNIK
```

04852930   E.I. No: EIP97103884181
   Title: Integration   **of**   hand - written   **address interpretation technology   into   the   United   States Postal Service Remote Computer Reader System**
   Author: Srihari, Sargur N.; Kuebert, Edward J.

   Corporate Source: State Univ of New York at Buffalo, Amherst, NY, USA

   Conference Title: Proceedings of the 1997 4th International Conference on Document Analysis and Recognition, ICDAR. Part 2 (of 2)
   Conference Location: Ulm, Ger   Conference Date: 19970818-19970820
   Sponsor: IEEE
   E.I. Conference No.: 47157
   Source: Proceedings of the International Conference on Document Analysis and Recognition, ICDAR v 2 1997. IEEE, Los Alamitos, CA, USA,97TB100138. p 892-896
   Publication Year: 1997
   CODEN: 002693
   Language: English
   Document Type: CA; (Conference Article)   Treatment: T; (Theoretical)
   Journal Announcement: 9712W2

   Abstract: **Hand - written** address interpretation (HWAI) technology has been recently **incorporated** into the processing of letter mail by the United States Postal Service. The Remote **Bar   Coding** System, which is an image management system for assigning **bar   codes** to mail that is not fully processed by postal OCRs, have been retrofit with the Remote Computer Reader (RCR) into which the HWAI technology is **integrated** . A description of the HWAI technology, including its algorithms for the control structure, recognizers and databases is provided. Performance on more than a million **hand - written** mail-pieces in a field deployment of the **integrated** RCR-HWAI system are indicated. Future enhancements for a nationwide deployment of the system are indicated. (Author abstract) 5 Refs.

   Descriptors: *Optical character recognition; Database systems; Image processing; Data structures; Error detection; Error analysis; Algorithms
   Identifiers: **Handwritten** address interpretation
   Classification Codes:
   741.1   (Light/Optics); 723.3   (Database Systems); 723.2 (Data Processing); 721.1   (Computer Theory, Includes Formal Logic, Automata Theory, Switching Theory, Programming Theory); 921.6   (Numerical Methods)
   741   (Optics & Optical Devices); 723   (Computer Software); 721   (Computer Circuits & Logic Elements); 921   (Applied Mathematics)
   74   (OPTICAL TECHNOLOGY); 72   (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

04108968   E.I. No: EIP95032620456
   Title: Extended-shadow-code based approach for off-line signature verification: Part - I - evaluation of the bar mask definition
   Author: Sabourin, Robert; Genest, Ginette
   Corporate Source: Lab d'Imagerie et de Modelisation Tridimensionnelle, Montreal, Que, Can
   Conference Title: Proceedings of the 12th IAPR International Conference on Pattern Recognition. Part 2 (of 3)
   Conference Location: Jerusalem, Isr   Conference Date: 19941009-19941013
   Sponsor: IAPR; IEEE; The Information Processing Association of Israel
   E.I. Conference No.: 42601
   Source: Proceedings - International Conference on Pattern Recognition v 2 1994. IEEE, Piscataway, NJ, USA,94CH3440-5. p 450-453
   Publication Year: 1994
   CODEN: PICREG   ISSN: 1051-4651
   Language: English
   Document Type: CA; (Conference Article)   Treatment: T; (Theoretical)
   Journal Announcement: 9505W2

   Abstract: In this paper, the authors present an evaluation of the extended shadow code (ESC) used as a global feature **vector** for the signature verification problem. The proposed class of shape factors seems to be a good compromise between global features related to the general aspect of the signature, and local features related to measurements taken on specific parts of the signature. This is achieved by the bar mask definition, where at low resolution the ESC is related to the overall proportions of the signature. At high resolution, values of the horizontal, vertical and diagonal bars could be related to local measurements taken on specific parts of the signature without requiring low-level **handwriting** segmentation which is a very difficult task. (Author abstract) 7 Refs.

   Descriptors: *Character recognition; Feature extraction; Image analysis; Image segmentation; **Bar codes** ; **Vectors**
   Identifiers: Extended shadow code; Off line signature verification; Bar mask
   Classification Codes:
   723.2 (Data Processing); 723.5 (Computer Applications); 921.1 (Algebra)
   723 (Computer Software); 921 (Applied Mathematics)
   72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

04149988   JICST ACCESSION NUMBER: 99A0590911   FILE SEGMENT: JICST-E
Paper Interface by Programs Embedded **in Paper.**
YAMASHITA DAISUKE (1); HAGIYA MASAMI (1); TAKAGI HIRONOBU (2)
(1) Univ. of Tokyo, Grad. Sch.; (2) IBM Japan, Ltd.
ABSTRACT: For realizing more "intelligent" paper by helping paper work with
    computer, we proposed the realization that programs for processing the
    information on paper and outputing the result on paper are **encoded** to
    QR(Quick Response) code which is a kind of two-dimensional **barcode** ,
    and are **embedded** in the paper itself. With this, a user can continue
    the paper work only with paper. Such paper can be copied and
    distributed numerously, and can be applied to the same way of managing
    and using normal paper. Moreover, for using such paper without
    depending on the environment of computer, we provide the
    API(Application Program Interface) for describing programs **embedded**
    in paper. In this paper, we build the API on Java. (author abst.)
DESCRIPTORS: **handwritten** character recognition; human interface; input
    output unit; **bar** **code** ; laser scanner; packaging design; paper;
    prototyping(computer
BROADER DESCRIPTORS: character recognition; figure pattern recognition;
    pattern recognition; recognition; interface; computer peripheral
    equipment; equipment; optical instrument; scanner; design; computer
    system development; development
CLASSIFICATION CODE(S): JE07000S; IB03000G; JC04050U

```
Set      Items   Description
S1      690894   BARCOD? OR (PRODUCT? OR BAR)()(CODING OR CODE?) OR ISBN OR
                 UPC OR UNIVERSAL()PRODUCT()CODE? OR EAN OR POSTNET OR CODABAR
                 OR CODE128 OR CODE()128
S2      163160   HANDWRIT? OR HAND()(WRITTEN OR WRITING) OR AUTOGRAPH? OR C-
                 URSIV? OR LONGHAND?
S3          34   S2(2N)(VECTOR? OR MODULAT? OR ENCRYPT? OR ENCIPHER? OR ENC-
                 YPHER? OR STEGANOGRAPH? OR WATERMARK?)
S4           0   S1(10N)S3
S5         593   S1(10N)S2
S6          45   S5(10N)(COMBIN? OR MERG? OR EMBED? OR INTEGRAT? OR INCOR-
                 PORAT? OR WATERMARK? OR STEGANOGRAPH?)
S7          79   S3 OR S6
S8          48   RD (unique items)
S9          27   S8 NOT PY=2000:2005
S10         27   S9 NOT PD=20000525:20030525
S11         27   S10 NOT PD=20030525:20050601
File 275:Gale Group Computer DB(TM) 1983-2005/May 25
         (c) 2005 The Gale Group
File  47:Gale Group Magazine DB(TM) 1959-2005/May 25
         (c) 2005 The Gale group
File  75:TGG Management Contents(R) 86-2005/May W3
         (c) 2005 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2005/May 25
         (c) 2005 The Gale Group
File  16:Gale Group PROMT(R) 1990-2005/May 24
         (c) 2005 The Gale Group
File 624:McGraw-Hill Publications 1985-2005/May 25
         (c) 2005 McGraw-Hill Co. Inc
File 484:Periodical Abs Plustext 1986-2005/May W4
         (c) 2005 ProQuest
File 613:PR Newswire 1999-2005/May 25
         (c) 2005 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File 141:Readers Guide 1983-2005/Dec
         (c) 2005 The HW Wilson Co
File 239:Mathsci 1940-2005/Jun
         (c) 2005 American Mathematical Society
File 370:Science 1996-1999/Jul W3
         (c) 1999 AAAS
File 696:DIALOG Telecom. Newsletters 1995-2005/May 24
         (c) 2005 The Dialog Corp.
File 553:Wilson Bus. Abs. FullText 1982-2004/Dec
         (c) 2005 The HW Wilson Co
File 621:Gale Group New Prod.Annou.(R) 1985-2005/May 25
         (c) 2005 The Gale Group
File 674:Computer News Fulltext 1989-2005/May W3
         (c) 2005 IDG Communications
File  88:Gale Group Business A.R.T.S. 1976-2005/May 24
         (c) 2005 The Gale Group
File 369:New Scientist 1994-2005/Apr W2
         (c) 2005 Reed Business Information Ltd.
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 635:Business Dateline(R) 1985-2005/May 25
         (c) 2005 ProQuest Info&Learning
File  15:ABI/Inform(R) 1971-2005/May 25
         (c) 2005 ProQuest Info&Learning
File   9:Business & Industry(R) Jul/1994-2005/May 24
         (c) 2005  The Gale Group
File  13:BAMP 2005/May W3
         (c) 2005  The Gale Group
File 810:Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire
```

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Set      Items    Description
S1       37237    BARCOD? OR (PRODUCT? OR BAR)()(CODING OR CODE?) OR ISBN OR
                  UPC OR UNIVERSAL()PRODUCT()CODE? OR EAN OR POSTNET OR CODABAR
                  OR CODE128 OR CODE()128
S2       11104    HANDWRIT? OR HAND()(WRITTEN OR WRITING) OR AUTOGRAPH? OR C-
                  URSIV? OR LONGHAND?
S3         131    S2(2N)(VECTOR? OR MODULAT? OR ENCRYPT? OR ENCIPHER? OR ENC-
                  YPHER? OR STEGANOGRAPH? OR WATERMARK?)
S4          24    S1 AND S3
S5           0    S1(10N)S3
S6      206571    IC=(G06F OR H04L OR G09C OR H04K)
S7          .2    S4 AND S6
S8          27    S1(2N)S2
S9          10    S6 AND S8
S10         12    S7 OR S9
S11         12    IDPAT (sorted in duplicate/non-duplicate order)
S12         12    IDPAT (primary/non-duplicate records only)
File 348:EUROPEAN PATENTS 1978-2005/May W03
         (c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2005/UB=20050519,UT=20050512
         (c) 2005 WIPO/Univentio
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Set       Items     Description
S1        31999     BARCOD? OR (PRODUCT? OR BAR)()(CODING OR CODE?) OR ISBN OR
                    UPC OR UNIVERSAL()PRODUCT()CODE? OR EAN OR POSTNET OR CODABAR
                    OR CODE128 OR CODE()128
S2        11373     HANDWRIT? OR HAND()(WRITTEN OR WRITING) OR AUTOGRAPH? OR C-
                    URSIV? OR LONGHAND?
S3          33      S2(2N)(VECTOR? OR MODULAT? OR ENCRYPT? OR ENCIPHER? OR ENC-
                    YPHER? OR STEGANOGRAPH? OR WATERMARK?)
S4           0      S1 AND S3
S5         110      S1 AND S2
S6           6      S5 AND (VECTOR? OR MODULAT? OR ENCRYPT? OR ENCOD? OR ENCYP-
                    HER? OR ENCIPHER? OR STEGANOGRAPH? OR WATERMARK?)
S7          11      S1(2N)S2
S8          16      S6 OR S7
S9           1      S5 AND IC=H04L-009
S10         49      S5 AND IC=(H04L-009? OR G06F)
S11          1      S5 AND IC=(H04L-009 OR G09C OR H04K)
S12         19      S5 AND (EMBED? OR HIDE? OR HIDDEN OR HIDING OR INCORPORAT?
                    OR INTEGRAT? OR COMBIN? OR MERG?)
S13         71      S8 OR S9 OR S10 OR S11 OR S12
S14         49      S13 AND IC=(G06F OR H04L OR H04K OR G09C)
S15         25      S14 NOT AD=20000525:20030525
S16         23      S15 NOT AD=20030525:20050601
S17         23      IDPAT (sorted in duplicate/non-duplicate order)
S18         21      IDPAT (primary/non-duplicate records only)
File 347:JAPIO Nov 1976-2005/Jan(Updated 050506)
         (c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200533
         (c) 2005  Thomson Derwent
```

011651139   **Image available**
WPI Acc No: 1998-068047/199807
XRPX Acc No: N98-053855
   Vehicle mounted in OCR system with automatic voucher receiving/delivering facility using mobile communication system in goods transportation industry - has transmitting unit to transmit code information and compressed image information to computer which then registers it
Patent Assignee: NEC CORP (NIDE)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 9305676	A	19971128	JP 96148667	A	19960520	199807	B

Priority Applications (No Type Date): JP 96148667 A 19960520
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 9305676	A		7	G06F-017/60	

Abstract (Basic): JP 9305676 A
     The system includes an input unit (11) to input image information which is then cut by a cutting unit (21) into a **barcode** , OCR font, **handwritten** character and optical mark reader dot image. A first recognition unit (22) recognises the first code information of the **barcode** . A second recognition unit (23) recognises the second code information of OCR font, **handwritten** character and reader dot image.
     An image compressor (24) compresses the image information. A memory (31) stores the compressed image information and the recognised code information. A transmitting unit (41) transmits the contents of the memory to a computer installed in the office through a mobile communication system. The received information is then registered in the computer.
     ADVANTAGE - Eliminates need for performing **barcode** scanning. Corrects code information referring to voucher image.
     Dwg.1/4
Title Terms: VEHICLE; MOUNT; OCR; SYSTEM; AUTOMATIC; VOUCHER; RECEIVE; DELIVER; FACILITY; MOBILE; COMMUNICATE; SYSTEM; GOODS; TRANSPORT; INDUSTRIAL; TRANSMIT; UNIT; TRANSMIT; CODE; INFORMATION; COMPRESS; IMAGE; INFORMATION; COMPUTER; REGISTER
Derwent Class: T01; T04; W01; W02
International Patent Class (Main): **G06F-017/60**
International Patent Class (Additional): G06K-009/00; H04Q-007/38
File Segment: EPI

010883840 **Image available**
WPI Acc No: 1996-380791/199638
XRPX Acc No: N96-321006
  Hand - written **information processor for printing address on parcel delivery voucher - has image arrangement part which arranges pattern data cut off from image stored in image memory at specified position**
Patent Assignee: TOPPAN MOORE KK (TOPP)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 8185451	A	19960716	JP 94328592	A	19941228	199638	B

Priority Applications (No Type Date): JP 94328592 A 19941228
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 8185451	A		4	G06F-019/00	

Abstract (Basic): JP 8185451 A
     The appts consists of a **hand writing** input pad (10) on which
the name and address are written by hand. An image memory (12) stores
the contents of the **handwriting** input pad in the form of an image. An
image cut-off part (16) cuts out the pattern data of required part from
the image stored in the memory. An image arrangement part (18) arranges
cut-off pattern data in specified position. The output of the image
arrangement part is input to a printer (20) which outputs the voucher
in which **handwritten** contents are printed. An information comparison
part (24) performs information compression of output of the image
cut-off part.
     A 2D **bar coding** part (26) converts the output of the
compression part into a 2D **bar code** . The **bar code** is printed on
a paper card (28). A **bar code** reading part (32) reads the 2D **bar
code** from the card. An expansion part (34) performs expansion of the
2D **bar code** and outputs it to the image arrangement part. Then,
printing is performed by the printer.
     ADVANTAGE - Prevents writing same contents by hand on multiple
vouchers. Saves time. Improves efficiency.
     Dwg.1/2
Title Terms: HAND; WRITING; INFORMATION; PROCESSOR; PRINT; ADDRESS; PARCEL;
  DELIVER; VOUCHER; IMAGE; ARRANGE; PART; ARRANGE; PATTERN; DATA; CUT;
  IMAGE; STORAGE; IMAGE; MEMORY; SPECIFIED; POSITION
Derwent Class: T01; T04
International Patent Class (Main): **G06F-019/00**
International Patent Class (Additional): **G06F-017/22** ; G06K-009/20
File Segment: EPI

009417566   **Image available**
WPI Acc No: 1993-111080/199314
XRPX Acc No: N93-084596
Training system for neural networks used in automated recognition of handwritten script - uses extraction of tangent vector data from symbols during learning phase for faster classification during operation
Patent Assignee: AMERICAN TELEPHONE & TELEGRAPH CO (AMTT); AT & T CORP (AMTT)
Inventor: DENKER J S; LECUN Y A; SIMARD P Y; LE CUN Y A
Number of Countries: 005 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 535786	A2	19930407	EP 92306749	A	19920723	199314	B
CA 2069811	A	19930404	CA 2069811	A	19920528	199325	
EP 535786	A3	19940209	EP 92306749	A	19920723	199518	
CA 2069811	C	19980811	CA 2069811	A	19920528	199843	
EP 535786	B1	19990210	EP 92306749	A	19920723	199911	
DE 69228412	E	19990325	DE 628412	A	19920723	199918	
			EP 92306749	A	19920723		

Priority Applications (No Type Date): US 91770267 A 19911003
Cited Patents: No-SR.Pub; 2.Jnl.Ref; DE 4217832
Patent Details:

Patent No	Kind Lan	Pg	Main IPC	Filing Notes
EP 535786	A2 E	23	G06K-009/66	
Designated States (Regional): DE FR GB NL				
EP 535786	B1 E		G06K-009/66	
Designated States (Regional): DE FR GB NL				
DE 69228412	E		G06K-009/66	Based on patent EP 535786
CA 2069811	A		G06F-015/18	
EP 535786	A3		G06K-009/66	
CA 2069811	C		G06F-015/18	

Abstract (Basic): EP 535786 A
        The neural network is trained to recognise alphanumeric symbols and comprises a symbol input device, a neural net with trainable adjustable parameters, and an output classifier.
        The net parameters are trained to classify each member of a set of known alphanumeric inputs. The parameters are then trained to classify spatially modified members of the set. The set members are transformed and used to generate tangent **vector** information, and the parameters adjusted to include tangent **vector** information in the output classification. The output of the classifier is designated as machine readable **bar code** and applied to the envelope.
        USE/ADVANTAGE - For sorting mail. Faster training and recognition of **handwritten** script by use of symbol invariants.
        Dwg.10/12
Title Terms: TRAINING; SYSTEM; NEURAL; NETWORK; AUTOMATIC; RECOGNISE; **HANDWRITING** ; SCRIPT; EXTRACT; TANGENT; **VECTOR** ; DATA; SYMBOL; LEARNING; PHASE; FAST; CLASSIFY; OPERATE
Index Terms/Additional Words: **MAIL** ; **SORTING**
Derwent Class: T01; T04; T05
International Patent Class (Main): **G06F-015/18** ; G06K-009/66
International Patent Class (Additional): **G06F-015/80**
File Segment: EPI

07097411   **Image available**
 HANDWRITTEN   INFORMATION PROCESSING,   **HANDWRITTEN**   INFORMATION PROCESSING
SYSTEM AND INFORMATION RECORDING MEDIUM

PUB. NO.:   2001-325067   [JP 2001325067 A]
PUBLISHED: November 22, 2001 (20011122)
INVENTOR(s):   HATTORI HITOSHI
                FURUTA TOSHIYUKI
                BEPPU TOMOHIKO
APPLICANT(s):   RICOH CO LTD
APPL. NO.:   2000-145696   [JP 2000145696]
FILED: May 17, 2000 (20000517)
INTL CLASS: **G06F-003/03**

ABSTRACT

PROBLEM TO BE SOLVED: To provide a **handwritten** information processor and
a **handwritten** information processing system and an information recording
medium,   capable of   ensuring security of document information and
satisfactory handleability.
SOLUTION: This **handwritten** information processor for generating data
corresponding to characters written by hand on an information recording
medium is provided with a memory 4 for storing data, a **bar**   **code** reader
33 for reading a first password written in the information recording
medium, a discriminating circuit 3 for discriminating whether a first
password read by the **bar**   **code** reader 33 matches a previously set second
password, and a control circuit 5 for allowing the memory 4 to store the
data, when it is discriminated by the discriminating circuit 3 that the
first password matches the second password.

06111920   **Image available**
SLIP ISSUING SYSTEM

PUB. NO.:   11-053453   [JP 11053453 A]
PUBLISHED: February 26, 1999 (19990226)
INVENTOR(s):   SHIGEKUSA HISASHI
                 OSHIMA TADAO
                 FUJIMOTO SUNAO
                 OKAMOTO HIROSHI
                 TANO ATSUSHI
                 KUROBE TAKAHIRO
APPLICANT(s): DENSO CORP
APPL. NO.:   09-210909   [JP 97210909]
FILED: August 05, 1997 (19970805)
INTL CLASS: G06F-019/00 ; B41J-029/38; G06F-017/60 ; G07D-009/00

ABSTRACT

PROBLEM TO BE SOLVED: To perform delivering operation efficiently by making
a radio communication between the portable information terminal device that
a person carries and the vehicle-side information management device mounted
on a vehicle and printing necessary information on a slip at the portable
information terminal side.

SOLUTION: Only the telephone numbers of a sender and a recipient are
inputted to the portable information terminal device and sent to the
vehicle-side information management device. The vehicle-side information
management device retrieves customer information such as addresses and
names corresponding to the telephone number by referring to a customer
information database. When no customer information is found, that is
transmitted to the portable information terminal device. In this case, the
portable information terminal device allows **handwriting** input to a slip
display part 12b using an input pen 16 and reads **handwritten** characters
through specific converting operation to input the characters. Then a
two-dimensional **bar code** representing the inputted data in two
dimensions is generated and then a printer part 13 prints the same display
contents as the slip display part 12b and outputs them on a slip.

ABSTRACT

PURPOSE: To read out through the optical device the invoice No., the **hand
- written** names of the consignor and consignee and others for memorization
and then printing, and thus to omit the key-in and reading procedures for
them directly or changing into katakana (Japanese syllabary).

CONSTITUTION: Invoice 1 is inserter to inserter 2, and the necessary
information is inserted through keymat (e). When the insertion of the
information is over, drum 8 is turned by motor 27 to roll invoice 1 in and
then to set the center lines of the names of the consignor and the
consignee and others written by hand on the invoice right above image
sensor block 13. Then the image sensor is scanned, and thus the **hand -
written** information is read out and processed through computer (a) to be
memorized in memory unit (b). With turning of drum 8, the **bar   code** of
the invoice No. is set right above block 13 to carry out the same process.
Invoice 1 then stops at printer block 24 through rotations of drum 8 to
print the information sent from computer (a). With end of the printing,
invoice 1 is sent outside via roller 30 and guide 31.